

Topological Methods In Data Ysis And Visualization Theory Algorithms And Applications Mathematics And Visualization

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Topological Methods In Data Ysis

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Biology has entered the age of Big Data ... topological data analysis.' Gunnar Carlsson - Stanford University, California 'This is an important book. Modern experimental biology produces large amounts ...

Topological Data Analysis for Genomics and Evolution

Researchers from the Cluster of Excellence ct.qmat – Complexity and Topology in Quantum Matter have gained a new understanding of the behavior of electrons in powerful magnetic fields.

New Model Explains Measurements of Electric Currents in 3D Quantum Material

This volume collects the proceedings of the conference 'Topological methods in group theory' held at Ohio State University in 2014 in honor of Ross Geoghegan's 70th birthday. It consists of eleven ...

Topological Methods in Group Theory

See allHide authors and affiliations Strong light-matter interaction enriches topological photonics by dressing light ... μm and a center-to-center distance of $0.475 \mu\text{m}$ (Materials and Methods), which ...

Optical switching of topological phase in a perovskite polariton lattice

Control of the phase transition from topological to normal insulators can allow for an on/off switching of spin current. While topological phase transitions have been realized by elemental

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...

Visualization of the strain-induced topological phase transition in a quasi-one-dimensional superconductor TaSe 3

Because of its natural occurrence in circular form, DNA has been extensively used as a proxy to study the fundamental physics of ring polymers in different topological states ... (see Materials and ...

Topological tuning of DNA mobility in entangled solutions of supercoiled plasmids

Two faculty members from the Penn State Department of Statistics have been named Fellows of the Institute of Mathematical Statistics. Nicole Lazar, professor of statistics, and Aleksandra (Seša) ...

Two from Department of Statistics named Institute of Mathematical Statistics Fellows

Orbital angular momentum has been recently employed as a type of reliable modulation. The topological charge l is robust during propagation when there is atmospheric turbulence. In this work ...

Complex wavefront sensing based on coherent diffraction imaging using vortex modulation
CoNb₃S₆ is a member of a large class of layered two-dimensional materials, so this might open the door to many new examples of topological matter. New Vapor Deposition Method Leads to New Engineers ...

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Topological Material Shows Unusual Behavior

An increasingly popular approach to the analysis of neural data is to treat activity patterns as being constrained to and sampled from a manifold, which can be characterized by its topology. The ...

Geodesic-based distance reveals non-linear topological features in neural activity from mouse visual cortex

The characterization of this biphenylene network by scanning probe methods reveals that it is metallic rather than a dielectric. We expect the interpolymer HF-zipping method to complement the toolbox ...

Biphenylene network: A nonbenzenoid carbon allotrope

"We knew this material had a similar crystal structure and composition as those exhibiting interesting magnetic, topological, and ferroelectric ... But traditional methods for applying strain to ...

Technique induces magnetism in nanoscale materials

In devices like terahertz spectrometers used to analyze the molecular composition of materials, being able to adjust polarization up to a full 90 degrees would allow for data gathering at a much ...

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Thin is now in to turn terahertz polarization

In medical devices, they might be used to improve sensing and data collection. When implemented in semiconductors, they greatly increase computing power. They play an important role in navigation ...

Photonics research harnesses the power of light

These tools provide unified access to all the types of design data (physical, logical, electrical) in a single environment to enable the evaluation of topological constraints within the context ...

Circuit Reliability Verification For Automotive Electronics

Spatial data, its uses and limitations are evaluated. Students work extensively with the ARCGIS software package. Introduction to the design, conduct, and analysis of statistical studies aimed at ...

Data Science—MS

Cornell's Platform for the Accelerated Realization, Analysis, and Discovery of Interface Materials (PARADIM) has received a second award of \$22.5 ...

\$22.5M NSF grant accelerates materials discovery

Designed to enable users to discover, develop, manufacture, and deploy advanced materials more quickly and affordably than conventional methods allow ... a new type of topological

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insulator, and a ...

Crystal growth lab renews funding from NSF

All we do at the moment is we focus on the microwave part, so we can work with superconducting qubits, topological qubits etc. We can convert microwaves to optical signals and they can talk to each ...

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